

Woodward-Clyde Consultants



Engineering & sciences applied to the earth & its environment

April 7, 1995
C3M11Q

Mr. Brad Bradley
USEPA Region V, 5HS-11
77 West Jackson, 6th floor
Chicago, Illinois 60604

Subject: **Dust control for NL/Taracorp Pile**

Dear Mr. Bradley:

A Woodward-Clyde representative was present on April 6th, 1995 to oversee the application of Coherex, an oil based emulsion used for dust control, on the areas of the waste pile where trenches were excavated in November, 1994. Approximately 900 gallons of Coherex were applied to the six trench locations and the areas of the pile disturbed by the excavating equipment. The material was applied using a fire hose attached to a tank truck. The tank truck is similar to the type of truck used for spraying road tar. The spraying commenced at approximately 9:00 AM and was completed at approximately 11:00 AM. A copy of the contractor invoice and the Material Data Safety Sheet (MSDS) for Coherex is attached.

If you have any questions or comments please feel free to call.

Very truly yours,

Eric S. Page
Sr. Staff Geologist

David L. Pate
Sr. Project Geologist

Enclosure

cc: Eugene Liu - USACE
George Webb - Taracorp

EPA Region 5 Records Ctr.



267889

CAM

CONSTRUCTION, LTD.

300 Daniel Boone Trail
 South Roxana, IL 62087
 Phone: (618) 254-3855
 Fax: (618) 254-2200

PRODUCT SALES DIVISION

INVOICE NO. **04655**

DATE	CUSTOMER P.O. NO.	TERMS	F.O.B. (Shipping Point-Unless Otherwise Noted)
4/5/95	400296	Net 30 days	

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Woodward-Clyde
 101 S. 108th Avenue
 Omaha, NE 68154

Taracorp Waste File Site
 Granite City, IL

CAM Representative _____

ITEM ORDERED	UNIT PRICE	UM	INVOICE QUANTITY	AMOUNT
NOIBN, Non-Flammable, Non-toxic Coherex			1 900GAL.	

PER _____

* U/M 1=GALS. 2=LBS. 3=CASES. 4=BARRELS. 5=TONS. 6=AS SPEC'D.
7=LITERS. 8=KILO.

WE CERTIFY COMPLIANCE WITH THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED.
 ALL CLAIMS TO BE MADE IN WRITING WITHIN 15 DAYS AFTER DELIVERY OF GOODS
 AND IN ANY EVENT SHALL BE LIMITED TO THE SELLING PRICE.
 NO DISCOUNT ALLOWED ON TAXES, FREIGHT AND DEPOSITS FOR CONTAINERS.
 CLAIMS FOR THE SHORTAGES OF LESS THAN 1/4 OF 1% OF THE NEW WEIGHT
 OF BULK SHIPMENTS WILL NOT BE ALLOWED.

CAM Construction LTD, is not liable for any product contamination when it is transported in any vessel other than our own.
 All our products are cationic.

"SELLER MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, EXCEPT THAT THE GOODS SOLD HEREUNDER
 SHALL MEET SPECIFICATIONS OF BUYER, AFTER THE GOODS ARE ACCEPTED BY THE BUYER WITHIN THE TIME SPECIFIED
 THE BUYER ASSUMES ALL RISK AND LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THE GOODS, WHETHER
 USED BY THE BUYER SINGLY OR IN COMBINATION WITH OTHER PRODUCTS, OR IF SOLD BY BUYER TO THIRD PERSONS
 EITHER IN ITS ORIGINAL FORM OR IF REPACKAGED BY BUYER AND THEN SOLD TO THIRD PERSONS."

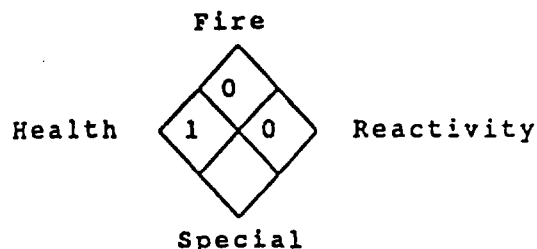
WITCO MATERIAL SAFETY DATA SHEET

PRODUCT NAME: COHEREX

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NFPA HAZARD RATING

4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant



DIVISION AND LOCATION---SECTION I

Division: GOLDEN BEARLocation: OILDALE, CA

P.O. BOX 5446, MANOR & NORRIS ROADS, OILDALE, CA, 93388-5446

Emergency Telephone Number: (805) 393-7110Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. and Canada)

CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

Chemical Name:

Petroleum Hydrocarbon in Water Emulsion

Formula: not applicableHazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.

oxides of nitrogen

oxides of sulfur

Incompatibility (Keep away from):

strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

Toxic and Hazardous Ingredients:

heavy naphthenic distillate (petroleum) and/or

heavy naphthenic extract (petroleum)

CAS #

64742-34-3

64742-11-6

Form: oily liquid emulsionOdor: no objectionable odorAppearance:Color:Specific Gravity (water=1): about 1Boiling Point: 100°C (212°F)Melting Point: not applicableSolubility in Water (by weight %): readily dispersibleVolatile (by weight %): less than 45 at 25 °CEvaporation Rate: (water = 1) 1Vapor Pressure (mm Hg at 20°C): same as waterVapor Density (air=1): same as waterpH (as is): 4.5 to 6.5Stability: Product is stable under normal conditionsViscosity SUS at 100°F: Greater than or = to 100Other physical properties:

Viscosity = or greater than 18.6 cSt at 40°C

(Continued on next page)

PRODUCT NAME: COHEREX

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SPECIAL PROTECTION INFORMATION---SECTION V

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Ventilation Type Required (Local, mechanical, special):

Local if necessary to maintain allowable PEL(permissible exposure limit) or TLV(threshhold limit value)

Respiratory Protection (Specify type):

Use NIOSH/MSHA certified respirator with organic vapor cartridge if vapor concentration exceeds permissible exposure limit

Protective Gloves:

oil resistant

Eye Protection:

chemical safety goggles

Other Protective Equipment:

none

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HANDLING OF SPILLS OR LEAKS---SECTION VI

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Procedures for Clean-Up:

In case of spill or leak absorb on an inert material such as earth, sand or vermiculite; sweep up and dispose of in accordance with federal, state and local regulations. If spilled into water, remove bulk of the product by skimming.

Waste Disposal:

Dispose of in accordance with all applicable federal, state and local regulations.

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SPECIAL PRECAUTIONS---SECTION VII

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Precautions to be taken in handling and storage:

Avoid prolonged or repeated contact with skin or breathing of vapors, mists or fumes. Launder contaminated clothing before reuse. Keep containers tightly closed. Avoid strong oxidizers. Eliminate all sources of ignition such as flames or sparks.

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TRANSPORTATION DATA---SECTION VIII

D.O.T.: Not Regulated

Reportable Quantity: not applicable

Freight Classification: 65 Petroleum Oil, n.o.i.b.n.

Special Transportation Notes:

none

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